

Abstract

A device for monitoring the flame of oil burners, in particular of yellow-flame or blue-flame oil burners, comprises a flame sensor detecting the illumination intensity in the burning chamber and a monitoring circuit, controlling the fuel supply in dependence on the detected illumination intensity, with a luminance threshold ($B_{\max}(I)$) for the starting phase (I) of the oil burner, above which an error message is issued, and with a darkness threshold ($B_{\min}(III,IV)$) higher than the luminance threshold ($B_{\max}(I)$) for the stabilization and operating phase (III,IV) of the oil burner, below which an error message is issued. The darkness threshold ($B_{\min}(III)$) is thereby higher during the stabilization phase (III) than the darkness threshold ($B_{\min}(IV)$) during the subsequent operating phase (IV). Consequently, the same flame sensor can be used for yellow-flame and blue-flame oil burners.

20170303 10:05:00